

HS-S041 - HEPA Duct Filter Housing

Areas of Use

HS-HEPA duct filter are ideal for being used in environments where high-quality filters with a high degree of adherence are needed, e.g. as bacteria adsorbent in clinics, as dust or aerosol filter in laboratories, in production lines, and research centers. Or wherever pure air is obligatory. These HS-filtration units can also be used for exhaust air purification, as well as for adsorbing radioactive, pathogen, or toxic particles. You will find HS-HEPA Duct Filter Housing as necessary part of ventilation systems with pharmaceutical, nuclear, or medical facilities, isotope-laboratories, in epidemic, or isolation wards.

Features

The robust, gas-tightly a welded case is subject to an intensive pressure test examination. The units will be undercoated and painted according to customers' orders in various RAL-standards. Stainless steel cases will be glas-blasted at the surface. The Filtration units are available for horizontal and vertical ventilation systems.

Sizes and Configuration

HS-S041 is available in various sizes and configurations.

Case for cells of
610/610/150 mm,
610/610/292 mm and
762/610/292 mm in size.

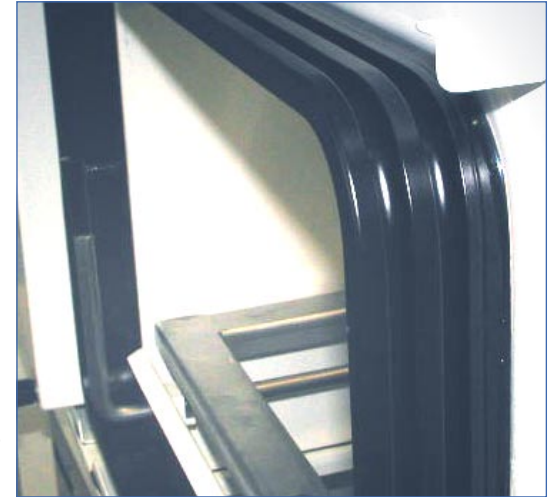
Combination with pre-filters sizing

610/610/50 mm and
762/610/50 mm.

Available with or without leak-test-device, two-groove maintenance board, connection nozzle, aerosol probing channels.

Further accessories and parts such as grounded units, manometer, and pressure guard can be installed as well.

Two-groove maintenance board



Tightening device



HS-S041 - HEPA Duct Filter

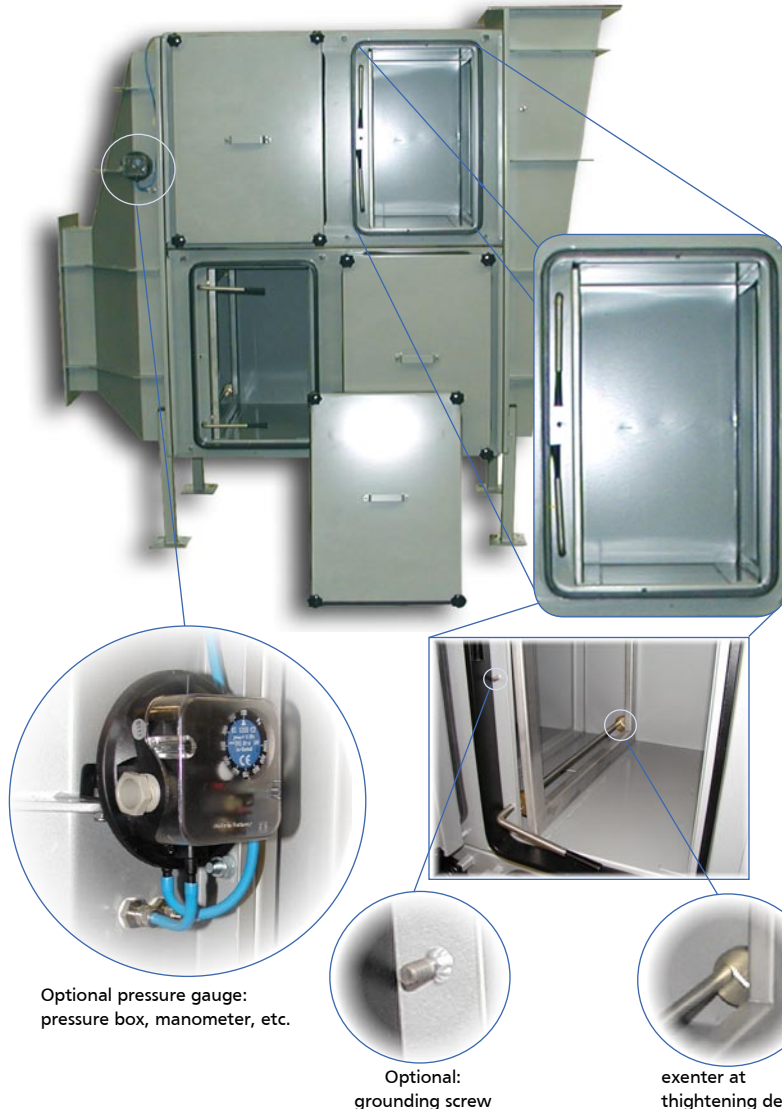
HS-S041 HEPA Duct Case

The case is fabricated from gas-tightly welded steel or stainless steel, and equipped with robust, non-drilled, double-edged connection flanges. Surfaces are finished with a decontaminated mixed varnish coating. Each filter cell may be tested for its tightness via a leak-test-device, e.g. in accordance with DIN 1946, part 4 (inspection groove). Alternatively they could be equipped with a sealing frame only. If needed a two-groove maintenance board for non-contaminating filter replacement may be installed. After exchanging the media durable lids, equipped with a profiled gasket, close the openings tightly by four star-headed-screws. The Save-Change bag can be placed onto the cover.

Tightening devices are made from stainless steel. They include a closed, strong structural steel frame, which tightens the filter cell thoroughly through eccentric tappets and flat springs (also available for HS-A053). These even out differences in frame high as they occurs production-wise, as well as the gasket's loss of elasticity due to usage.

The tightening device can only be fastened while the filter cell is placed in its exact position. Just as the top can only be positioned after the tightening device is placed and fastened. Therefore mistakes in inserting filters into the unit are ruled out. Stabilizing steel plates, which are welded onto the case, secure the device, and make it impossible for them to loosen even with heavy vibrations. The filter case can be placed into systems as indicated or in a 90-degree angle. The body features surrounding flange connections with a width of 47,5 millimeter in size.

Outlets that connect the flanges with the connection duct are to be drilled by HS-Luftfilterbau.

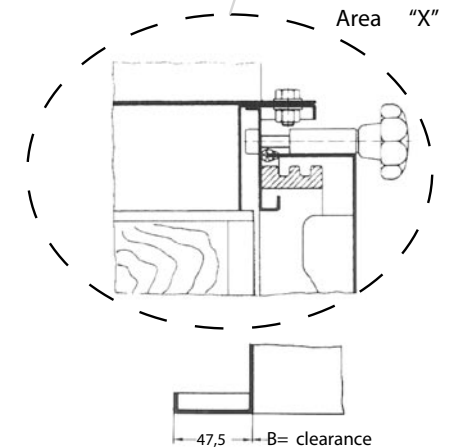
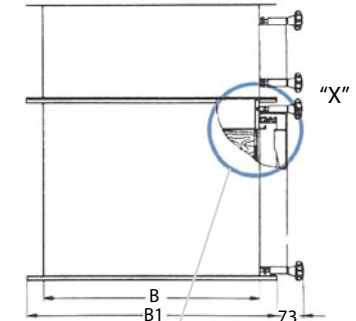
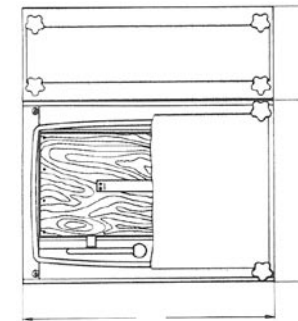


Optional pressure gauge:
pressure box, manometer, etc.

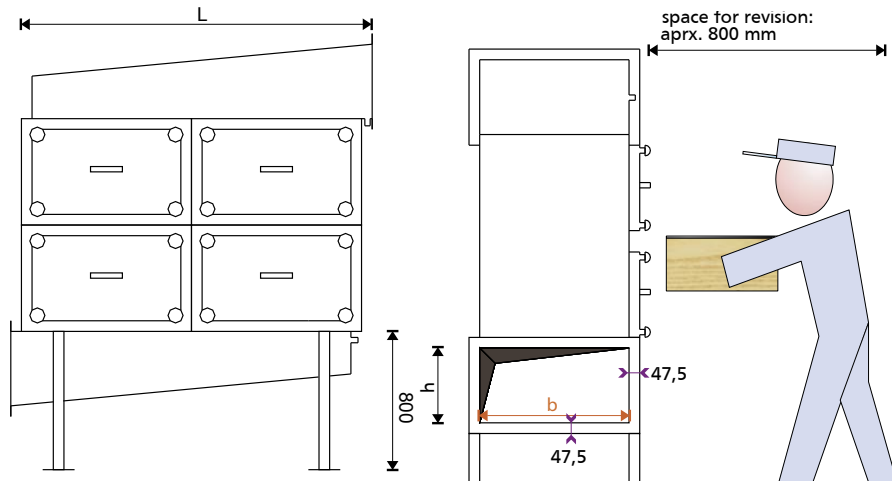
Optional:
grounding screw

exenter at
tightening device

Dimensions, case [mm]			Dimensions, filter [mm]		Weight of duct including filter cells [kg]	
A	B	B 1			without pre-filter	incl. pre-filter
382	615	710	610 x 610 x 150		50	70
524	615	710	610 x 610 x 292		65	85
524	775	870	762 x 610 x 292		70	95



HS-S041 - HS-HEPA Duct Filter



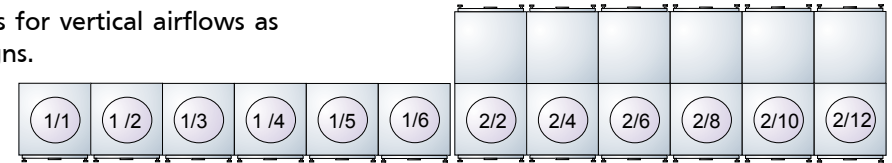
Connections for Horizontal Airflow

The HEPA Duct Filter comes with a pair of connections with base plates, which allow the combination of up to six filtration units (single- or double-row). The connection's surface is of the same material as the filter itself. HS-Luftfilterbau will place the connections before distribution. Starting from units 1/4 and 2/8 in size the cases will be taken apart due to reasons of delivery.

Pressure drops will be monitored via pressure tapping points. Outlets that connect the flanges with the connection duct are to be drilled by HS-Luftfilterbau.

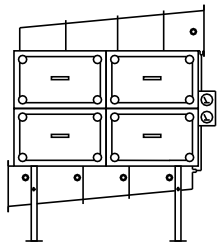
Our flexible production will be able to assemble the units upon your request. Please ask for further dimensions and configurations.

Please ask for connections for vertical airflows as well as for individual designs.

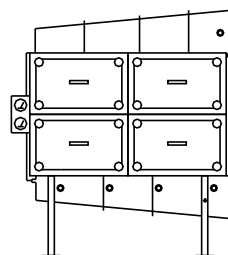


Alignment of Connections

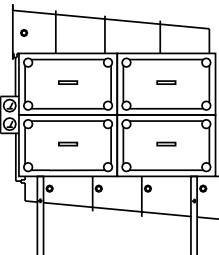
single row:
right/left
double-row:
right/left



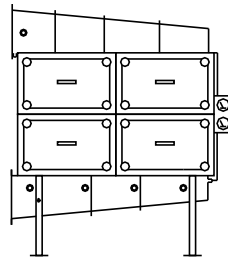
single row:
right/right
double-row:
right/right



single row:
left/right
double-row:
left/right



single row:
left/left
double-row:
left/left



		1/1	1/2	1/3	1/4	1/5	1/6	2/2	2/4	2/6	2/8	2/10	2/12
Fits filters sizing	Number of filters	1	2	3	4	5	6	2	4	6	8	10	12
Pair of connections size of cell 610 x 610 [mm]		Filtration unit, single row						Filtration unit, double-row					
Length	L [mm]	800	1510	2220	3020	3730	4440	800	1510	2220	3020	3730	4440
Clear height of connection	b [mm]	615	615	615	615	615	615	1325	1325	1325	1325	1325	1325
Clear height of connection	h [mm]	200	315	400	500	630	710	200	315	400	500	630	710
Weight of connection	[kg]	30	45	65	105	130	155	40	65	90	140	175	210
Pair of connections size of cell 762 x 610 [mm]		Filtration unit, single row						Filtration unit, double-row					
Length	L [mm]	800	1510	2220	3020	3730	4440	800	1510	2220	3020	3730	4440
Clear height of connection	b [mm]	770	770	770	770	770	770	1645	1645	1645	1645	1645	1645
Clear height of connection	h [mm]	200	315	400	500	630	710	200	315	400	500	630	710
Weight of connection	[kg]	35	50	70	110	140	170	45	75	105	155	200	135

